Principal Points of a paper read
yesterday, June 6, at Royal Society
(now public property.)

W. Huggins

90, UPPER TULSE HILL. S.W.

On the Photographic Spectra of Uranus & Saturn.

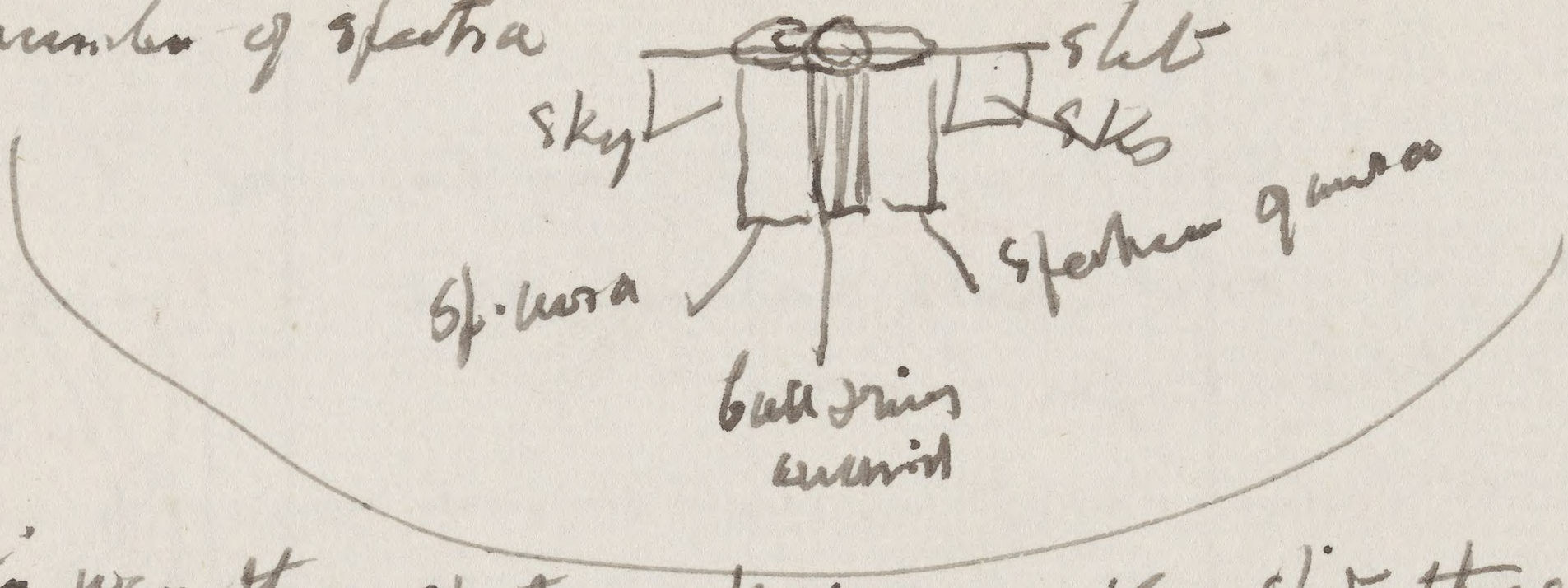
Uranus. In 1871 sent a paper on visible spectrum.
6 absorption band, one here at F,
Light too faint with narrow slit to bring out
Fraunhofer Lines.
a year later Vogel worked on Uranus. Confirmed
by observations of bands & their positions.
He could not get out Fraunhofer lines. Spectrum
too faint when slit narrow enough.
This year determined by photography, with
two hours' exposure obtained photograph of
spectrum of Uranus from a little above F to beyond
N in the ultra violet. In this all the
chief Fraunhofer lines come out. No doubt
that this part of spectrum at least, is
solar. No other lines bright or dark, so that
special absorption confined to visible spectrum.
Not yet be examined visible spectrum.

Saturn. In 1864 some account of visible spectrum.
In October 1880 account of photographic spectra
of Neptune, Venus & Mars.
A year later (1881) photographed Saturn & his rings

as no lines other than Fraunhofer lines, did not describe it. publish description of it.

(as soon as possible for Sept. issue a

this spring
number of spectra



In this way three spectra. Kept so spectra on slit, three spectra distinct, & not encroaching on each other.

Just as in 1881 I am unable to see any lines (bright or dark) other than those present in sky spectrum.

Solar spectrum photographed while sky bright enough to give a faint spectrum as background for comparison.

I thought it well you should know all this, as possibly other papers will come out soon on Novae.

Do you see "Nature"? very "nasty" sentence

Slatemans, signed J. N. Lo..
the Nebula

in this week's number. / too complicated to reply.

Write for Yours
He is sending reprints

Higgins LONDON SOTHERAN 53

A.D.S. (W. H.), entitled : Principal Points of a Paper read yesterday, June 6, at Royal Society (now public property), 2 closely written pages 8vo., with a pen-and-ink drawing, £1, 15s

5720 **HARLEY (Rev. Robert,** F.R.S., *Principal, Huddersfield Cottage, mathematician,* 1828-1
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'Mr. H. W. Lloyd Tanner is known to me both personally & by his writings as a mathematician